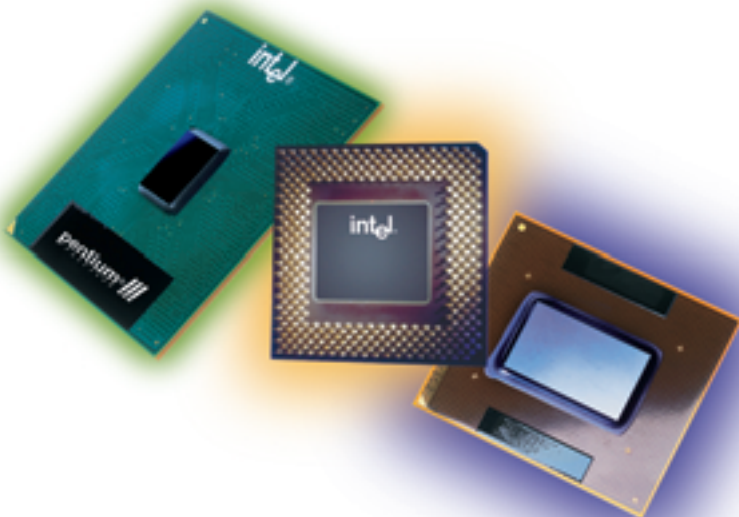


What's Inside



Intel® Reference Guide for Business PCs



Two Processor Families

Intel offers a processor to meet business users' performance and budget needs while providing a common processor architecture across the enterprise.

- The Intel® Pentium® III processor sets a new level for desktop and now for mobile computing on and off the Internet, delivering superb performance for greater productivity plus features to help enhance manageability and security.
- For solid performance and exceptional value, choose the Intel® Celeron™ processor. Celeron processors are quick and responsive for today's most popular business applications.

intel®

Intel® Pentium® III Processor

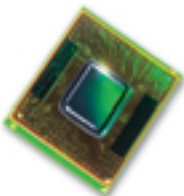
- Highest Intel desktop processor performance
- Headroom for today and tomorrow
- The preferred choice for e-Business



Features	IT Benefits	User Benefits
<ul style="list-style-type: none">■ Superb performance- Frequencies up to 1 GHz- P6 microarchitecture- 133 MHz or 100 MHz system bus¹- Integrated L2 cache¹- Intel® MMX™ technology	<ul style="list-style-type: none">■ Power to run background services, such as compression and encryption, without disrupting end-user applications to reduce bandwidth requirements and protect data■ Headroom for emerging applications and new operating systems, such as Windows® 2000, helps ensure platform longevity and investment protection	<ul style="list-style-type: none">■ Exceptional performance for the next-generation Internet environment and power-hungry applications■ Take advantage of emerging technologies
<ul style="list-style-type: none">■ 70 new instructions (Internet Streaming SIMD Extensions)	<ul style="list-style-type: none">■ Prepares installed base for advanced applications, operating systems and utilities optimized for the Pentium® III processor	<ul style="list-style-type: none">■ Utilize next-generation interfaces, such as speech and 3D, that make applications easier to use and complex data easier to understand■ Employ Internet-based applications that foster new styles of communication and collaboration
<ul style="list-style-type: none">■ Wired for Management compliant	<ul style="list-style-type: none">■ Reduced total cost of ownership through increased reliability and reduced downtime	

¹ Some speeds of the Intel® Pentium® III processor end with the letters B, E or EB. Processors designated with the letters B or EB support the 133 MHz system bus. Processors designated with the letters E or EB, and those with frequencies of 650 MHz or above, are based on the .18-micron process and incorporate the new 256KB Advanced Transfer Cache.

Intel® Mobile Pentium® III Processor



- Highest Intel mobile processor performance
- Intel® SpeedStep™ technology
- Enables anytime, anywhere computing

Features	IT Benefits	User Benefits
<ul style="list-style-type: none"> ■ Performance <ul style="list-style-type: none"> - Frequencies up to 750 MHz - Integrated L2 cache (256KB Advanced Transfer Cache) - 100 MHz system bus 	<ul style="list-style-type: none"> ■ Increases worker productivity with e-mail, data-sharing, video-conferencing and online collaboration over the Internet ■ Headroom for emerging applications and new operating systems 	<ul style="list-style-type: none"> ■ Higher productivity, faster throughput and enhanced e-Business capabilities ■ Smoother and faster graphics for rich and interactive presentations
<ul style="list-style-type: none"> ■ Intel® SpeedStep™ technology <ul style="list-style-type: none"> - Available on Mobile Pentium® III processors at 600 MHz and above - Provides desktop equivalent performance while connected to external power source - Processing frequency automatically adjusts when powered by battery, to prolong life 	<ul style="list-style-type: none"> ■ Maximizes performance when connected to external power, to handle advanced applications, operating systems and utilities 	<ul style="list-style-type: none"> ■ Extends productivity anywhere, anytime, with no compromise to battery life ■ Improves power consumption
<ul style="list-style-type: none"> ■ 70 new instructions (Internet Streaming SIMD Extensions) 	<ul style="list-style-type: none"> ■ Prepares installed base for advanced applications, operating systems and utilities optimized for the Pentium III processor 	<ul style="list-style-type: none"> ■ Mobile communication in a more natural way through speech recognition and video ■ Utilize Internet-based applications to conduct anytime, anywhere e-Business
<ul style="list-style-type: none"> ■ Wired for Management compliant 	<ul style="list-style-type: none"> ■ Reduced total cost of ownership through increased reliability and reduced downtime 	

Intel® Pentium® III Processor Performance Advantage

Application	As Measured by Performance on:	Compared to: Pentium® III processor 600 MHz, the Pentium III processor 1B GHz is:
Multimedia	Video*2000—Performance on Windows* 98se	76% faster
3D Graphics	3DMark* 2000—CPU Speed Test on Windows* 98se	71% faster
Internet	SYSmark* J on Windows 98se	60% faster
Productivity Suites	SYSmark* 2000 on Windows* 2000	52% faster

Configuration: Intel® Desktop Board VC820, 128 MB PC800 RDRAM, Creative* 3D Blaster* Annihilator Pro AGP with nVidia* GeForce256* DDR, IBM* DJNA-371800 ATA-66 hard drive, Microsoft* DirectX* 7.0, Windows* 98 Second Edition (except Windows* 2000 for SYSmark* 2000)

Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, reference www.intel.com/procs/perf/limits.htm or call (U.S.) 1-800-628-8686 or 1-916-356-3104.

Intel® Pentium® III Processor Operating System Support

More than 200 applications and solutions have been optimized to take advantage of the new features of the Pentium III processor, and additional products are in development, including applications for data visualization, security, graphics and imaging, Internet development, and office productivity. To take full advantage of the 70 new instructions in the Pentium III processor, these instructions must also be supported by the operating system.

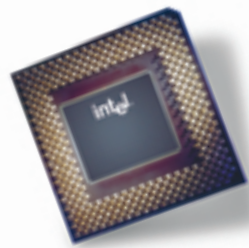
Operating System	Support for New Instructions in the Pentium® III Processor
Windows* 2000 Windows 98	Full support
Windows NT* 4.0 with Service Pack 4 or higher	Full support, with Intel-supplied driver available at http://developer.intel.com
Windows 95 Windows NT 4.0 with Service Pack 3 or earlier Windows 3.1	Partial support††

† Most existing software developed for the Intel® architecture runs on Pentium® III processors without modifications.

†† One type of new instruction (Single-Instruction, Multiple Data-Floating Point instructions) is not supported under these operating systems. All other new instructions are supported. Applications running on partially supported operating systems use traditional floating point code, and do not experience user-visible errors.

Intel® Celeron™ Processor

- Quick and responsive performance at an exceptional value for today's popular applications and the Internet
- Quality and reliability from Intel, the leader in microprocessors
- Based on the P6 microarchitecture



Features

- A quick, responsive processor
 - Frequencies up to 700 MHz
 - P6 microarchitecture
 - 128KB L2 cache built-in
 - 66 MHz front side bus
 - Intel® MMX™ technology

- Optimized for price/performance

- Intel's industry-leading technology, quality and reliability

Customer Benefits

- Offers responsive performance for most commonly used applications and across the spectrum of performance, including multimedia, Internet, productivity and 3D applications

- Intel® Celeron™ processor-based PCs are optimized to deliver responsive performance at a very affordable price for business organizations with focused usage models

- Value processor choice for business computing environments

Choosing the Right Processor for Your Business Needs

Professional Power Users	Mainstream Users	Value PC Users
<ul style="list-style-type: none">Require the highest available performance and headroom	<ul style="list-style-type: none">Invest for performance and versatility	<ul style="list-style-type: none">Require a quick, responsive PC at a low price
<ul style="list-style-type: none">Run the latest operating systems, demanding applications such as graphics, publishing and financial modeling, or new interfaces such as 3D graphics, speech recognition and streaming video	<ul style="list-style-type: none">Run mainstream applications and operating systems	<ul style="list-style-type: none">Run popular office applications such as word processor, spreadsheets, Internet browsers and data entry
<ul style="list-style-type: none">Run several concurrent or interrelated applications, agents and background processes	<ul style="list-style-type: none">Run one or more concurrent or interrelated applications, agents or background processes	<ul style="list-style-type: none">Run discrete applications, anticipate only minor changes in software and usage habits over time
<ul style="list-style-type: none">Make moderate to heavy use of Internet or intranet	<ul style="list-style-type: none">Make moderate to heavy use of Internet or intranet	<ul style="list-style-type: none">Make moderate use of Internet or intranet
<ul style="list-style-type: none">Intel® Pentium® III processor 1 GHz-866 MHz	<ul style="list-style-type: none">Intel Pentium III processor 850-700 MHz	<ul style="list-style-type: none">Intel® Celeron™ processor 700-500 MHz
<ul style="list-style-type: none">Mobile Intel® Pentium® III processor 750, 700 and 650 MHz, featuring Intel® SpeedStep™ technology	<ul style="list-style-type: none">Mobile Intel Pentium III processor 600 MHz, featuring Intel SpeedStep technology, Mobile Pentium III processor 550 and 500 MHz	<ul style="list-style-type: none">Mobile Intel Celeron processor

Technology Profile

Technology	Intel® Pentium® III Processor	Intel® Celeron™ Processor
Available speeds	1B ¹ GHz, 933, 866, 850, 800EB ¹ , 800, 750, 733, 700, 667, 650, 600EB ¹ , 600E ¹ , 600B ¹ ; 600 MHz	700, 667, 633, 600, 566, 533, 500 MHz
P6 microarchitecture	Yes	Yes
System bus speed	133 or 100 MHz ¹	66 MHz
Streaming SIMD Extensions	Yes	Yes (566 MHz and higher) No (533, 500 MHz)
MMX™ technology	Yes	Yes
Built-in Level 1 cache	32KB	32KB
Built-in Level 2 cache	512 or 256KB ¹	128KB

¹ Some speeds of the Intel® Pentium® III processor end with the letters B, E or EB. Processors designated with the letters B or EB support the 133 MHz system bus. Processors designated with the letters E or EB, and those with frequencies of 650 MHz or above, are based on the .18-micron process and incorporate the new 256KB Advanced Transfer Cache.

Spectrum of Performance

Today's microprocessors are used to run a broad range of software applications. Multimedia, 3D and Internet application use has increased sharply over the past few years, and this trend is expected to continue. For this reason, a wide range of benchmarks should be considered when evaluating processor and system performance. PC users and buyers should consider the entire spectrum of performance, which includes productivity, multimedia, 3D and Internet performance.

